Appl. No. 10/039,331
Reply to Office Action of July 16, 2004

Docket No. RTN-139PUS

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of the claims in the application:

1   1. (Currently Amended) A symbol expansion method comprising:
2   selecting a map portion containing one or more map display symbols on a computer map
3   display; and
4   presenting a symbol expansion display having information associated with the one or
5   more map display symbols on the computer map display, <u>wherein the one or more map display</u>
6   <u>symbols include map display symbols selected from among one or more de-cluttered map</u>
7   <u>display symbols, two or more normal map display symbols, and two or more cluttered map</u>
8   <u>display symbols, and</u> wherein the symbol expansion display is displayed concurrently with the
9   one or more map display symbols.

1   2. (Original) The method of claim 1, wherein the selecting comprises:
2   pointing to a map display symbol with a computer pointing device.

1   3. (Original) The method of claim 1, wherein the selecting comprises:
2   selecting a map portion of the computer map display containing the one or more map
3   display symbols with the computer pointing device.

1   4. (Currently Amended) The method of claim 1, wherein the presenting comprises:
2   relating the one or more map display symbols to one or more map symbol records
3   retained in a computer memory, each containing record components;
4   selecting one or more record components from among the one or more map symbol
5   records; ~~and~~
6   formatting the one or more selected record components; and

7   presenting at least one of one or more symbol expansion graphics and one or more

8   symbol expansion data associated with the selected record components in the symbol expansion

9   display concurrently with the one or more map display symbols.

1   5. (Previously Presented) The method of claim 4, wherein the selecting one or more record

2   components comprises:

3   selecting one or more record graphics components of the one or more map symbol

4   records.

1   6. (Previously Presented) The method of claim 4, wherein the selecting the one or more record

2   components comprises:

3   selecting record data of the one or more map symbol records.

1   7. (Previously Presented) The method of claim 6, wherein the selecting the record data

2   comprises:

3   filtering the record data of the one or more map symbol records to provide the one or

4   more symbol expansion data corresponding to a selected record data type.

1   8. (Original) The method of claim 7, wherein filtering the record data comprises:

2   selecting a record data type selected from the group consisting of a dollar asset range

3   record data type, a friendliness range record data type, a personnel size record data type, a

4   security classification record data type, a type of service record data type, and an age of symbol

5   record data type.

1   9. (Previously Presented) The method of claim 6, wherein the selecting the record data

2   comprises:

3   filtering the record data of the one or more map symbol records to provide symbol

4   expansion data corresponding to a selected record data range.

1   10. (Previously Presented) The method of claim 6, wherein the selecting the record data
2   comprises:
3   algorithmically combining map symbol records to provide the one or more symbol
4   expansion data.

1   11. (Previously Presented) The method of claim 4, wherein formatting comprises:
2   providing the one or more symbol expansion graphics, movable by the user on the
3   computer map display, and associated with the record graphics components of the one or more
4   map symbol records.

1   12. (Previously Presented) The method of claim 4, wherein formatting comprises:
2   providing the one or more symbol expansion data, movable by the user on the computer
3   maps display, and associated with the record data components of the one or more map symbol
4   records.

1   13. (Previously Presented) The method of claim 12, wherein providing the one or more symbol
2   expansion data comprises:
3   providing a user selectable language for the list of symbol expansion data.

1   14. (Previously Presented) The method of claim 4, wherein formatting comprises:
2   providing a lead line from the map portion to the symbol expansion display where the
3   lead line moves in accordance with the position of the symbol expansion display.

1   15. (Currently Amended) The method of claim 4, wherein formatting comprises:
2   color coding one or more of the one or more symbol expansion graphics to indicate an
3   attribute of the object represented by one of the one or more map display symbols.

1   16. (Previously Presented) The method of claim 4, wherein formatting comprises:
2   augmenting the symbol expansion display with special identifying characters that indicate
3   when information has been omitted from the symbol expansion display.

1   17. (Currently Amended) A symbol expansion apparatus comprising:

2   a selection device to select a map portion containing one or more map display symbols on

3   a computer map display; and

4   a presentation processor that receives information concerning the one or more map

5   display symbols selected by said selecting device and which presents a symbol expansion display

6   related to the map display region on the computer map display, wherein the one or more map

7   display symbols include map display symbols selected from among one or more de-cluttered

8   map display symbols, two or more normal map display symbols, and two or more cluttered map

9   display symbols, and wherein the symbol expansion display is displayed in

10   combinationconcurrently with the one or more map display symbols.

1   18. (Previously Presented) The apparatus of claim 17, wherein the presentation processor

2   comprises:

3   a computer memory having one or more map symbol records stored therein;

4   a relation processor which relates the one or more map display symbols to one or more

5   map symbol records retained in the computer memory;

6   a selection device for selecting one or more record components from among the one or

7   more map symbol records; and

8   a display processor which receives and formats each of the one or more selected record

9   components for presenting at least one of one or more symbol expansion graphics and one or

10   more symbol expansion data in the symbol expansion display in combination with the one or

11   more map display symbols.

1   19. (Previously Presented) The apparatus of claim 18, wherein the display processor comprises:

2   means for providing the one or more symbol expansion graphics, movable by the user on

3   the computer maps display, and associated with the record graphics components of the one or

4   more map symbol records.

Appl. No. 10/039,331
Reply to Office Action of July 16, 2004

Docket No. RTN-139PUS

1   20. (Previously Presented) The apparatus of claim 18, wherein the display processor further

2   comprises:

3   means for providing the one or more symbol expansion data, movable by the user on the

4   computer map display, and associated with the record data components of the one or more map

5   symbol records.

1   21. (Original) The apparatus of Claims 18 wherein the selection device is adapted to select a

2   map portion containing the one or more map display symbols.

1   22. (Currently Amended) The method of claim 1, wherein the computer map display is

2   displayed at a first scale and the symbol expansion display is displayed ~~in~~

3   ~~combination~~concurrently with the computer map display at the first scale.

1   23. (Previously Presented) The method of claim 4, wherein each of the one or more symbol

2   expansion graphics is associated with a lower level of hierarchy of one of the one or more map

3   display symbols.

1   24. (Previously Presented) The method of claim 4, wherein each of the one or more symbol

2   expansion data is associated with a lower level of hierarchy of one of the one or more map

3   display symbols.

1   25. (Previously Presented) The apparatus of claim 17, wherein the computer map display is

2   displayed at a first scale and the symbol expansion display is displayed in combination with the

3   computer map display at the first scale.

1   26. (Previously Presented) The apparatus of claim 18, wherein each of the one or more symbol

2   expansion graphics is associated with a lower level of hierarchy of one of the one or more map

3   display symbols.

Appl. No. 10/039,331
Reply to Office Action of July 16, 2004

Docket No. RTN-139PUS

1   27. (Previously Presented) The apparatus of claim 18, wherein each of the one or more symbol
2   expansion data is associated with a lower level of hierarchy of one of the one or more map
3   display symbols.

1   28. (New)   The method of claim 1, wherein the one or more map display symbols include one
2   or more de-cluttered map display symbols.

1   29. (New)   The method of claim 1, wherein the one or more map display symbols include
2   two or more normal map display symbols.

1   30. (New)   The method of claim 1, wherein the one or more map display symbols include
2   two or more cluttered map display symbols.

1   31. (New)   The apparatus of claim 17, wherein the one or more map display symbols include
2   one or more de-cluttered map display symbols.

1   32. (New)   The apparatus of claim 17, wherein the one or more map display symbols include
2   two or more normal map display symbols.

1   33. (New)   The apparatus of claim 17, wherein the one or more map display symbols include
2   two or more cluttered map display symbols.

1   34. (New).   A symbol expansion method comprising:
2   selecting a map portion containing one or more map display symbols on a computer map
3   display; and
4   presenting a symbol expansion display having information associated with the one or
5   more map display symbols on the computer map display, wherein the symbol expansion display
6   is displayed concurrently with the one or more map display symbols, wherein the presenting
7   comprises:

8   relating the one or more map display symbols to one or more map symbol

9   records retained in a computer memory, each containing record components;

10   selecting one or more record components from among the one or more

11   map symbol records, wherein the selecting the one or more record components

12   comprises selecting record data of the one or more map symbol records, wherein

13   the selecting the record data comprises filtering the record data of the one or more

14   map symbol records to provide the one or more symbol expansion data

15   corresponding to a selected record data type, wherein the filtering the record data

16   comprises selecting a record data type selected from the group consisting of a

17   dollar asset range record data type, a friendliness range record data type, a

18   personnel size record data type, a security classification record data type, a type of

19   service record data type, and an age of symbol record data type;

20   formatting the one or more selected record components; and

21   presenting at least one of one or more symbol expansion graphics and one

22   or more symbol expansion data associated with the selected record components in

23   the symbol expansion display concurrently with the one or more map display

24   symbols.

1   35. (New)   A symbol expansion method comprising:

2   selecting a map portion containing one or more map display symbols on a computer map

3   display; and

4   presenting a symbol expansion display having information associated with the one or

5   more map display symbols on the computer map display, wherein the symbol expansion display

6   is displayed concurrently with the one or more map display symbols, wherein the presenting

7   comprises:

8   relating the one or more map display symbols to one or more map symbol

9   records retained in a computer memory, each containing record components;

10   selecting one or more record components from among the one or more

11   map symbol records;

12   formatting the one or more selected record components, wherein

13   formatting comprises providing the one or more symbol expansion data, movable

14   by the user on the computer maps display, and associated with the record data

15   components of the one or more map symbol records, wherein the providing the

16   one or more symbol expansion data comprises providing a user selectable

17   language for the list of symbol expansion data; and

18   presenting at least one of one or more symbol expansion graphics and one

19   or more symbol expansion data associated with the selected record components in

20   the symbol expansion display concurrently with the one or more map display

21   symbols.

1   36. (New) A symbol expansion method comprising:

2   selecting a map portion containing one or more map display symbols on a computer map

3   display; and

4   presenting a symbol expansion display having information associated with the one or

5   more map display symbols on the computer map display, wherein the symbol expansion display

6   is displayed concurrently with the one or more map display symbols, wherein the presenting

7   comprises:

8   relating the one or more map display symbols to one or more map symbol

9   records retained in a computer memory, each containing record components;

10   selecting one or more record components from among the one or more

11   map symbol records;

12   formatting the one or more selected record components, wherein the

13   formatting comprises color coding one or more of the one or more symbol

14   expansion graphics to indicate an attribute of the object represented by one of the

15   one or more map display symbols; and

16   presenting at least one of one or more symbol expansion graphics and one

17   or more symbol expansion data associated with the selected record components in

18   the symbol expansion display concurrently with the one or more map display

19   symbols.

1   37. (New) A symbol expansion method comprising:

2   selecting a map portion containing one or more map display symbols on a computer map

3   display; and

4   presenting a symbol expansion display having information associated with the one or

5   more map display symbols on the computer map display, wherein the symbol expansion display

6   is displayed concurrently with the one or more map display symbols, wherein the presenting

7   comprises:

8   relating the one or more map display symbols to one or more map symbol

9   records retained in a computer memory, each containing record components;

10   selecting one or more record components from among the one or more

11   map symbol records;

12   formatting the one or more selected record components, wherein the

13   formatting comprises augmenting the symbol expansion display with special

14   identifying characters that indicate when information has been omitted from the

15   symbol expansion display; and

16   presenting at least one of one or more symbol expansion graphics and one

17   or more symbol expansion data associated with the selected record components in

18   the symbol expansion display concurrently with the one or more map display

19   symbols.